

IN THE CLAIMS:

1. (Currently amended) A method of coordinating a medical device with magnetic resonance imaging (MRI), the method comprising:

identifying information associated with one or more MRI electromagnetic radiation bursts applied to a patient; and

adjusting telemetry of a medical device during a period when the electromagnetic radiation bursts are being applied to the patient based on the information so that the medical device is capable of transmitting information by telemetry during the period when bursts are being applied.

2. (Original) The method of claim 1, wherein identifying information comprises receiving the information from an MRI device.

3. (Original) The method of claim 1, wherein identifying information comprises identifying timing information indicative of a timing of one or more electromagnetic radiation bursts.

4. (Original) The method of claim 3, wherein the timing information includes a start time of at least one burst interval, a duration of the burst interval(s), and a time interval between successive burst intervals.

5. (Currently amended) The method of claim 1, wherein adjusting telemetry comprises disabling one or more components of a telemetry unit during the electromagnetic radiation bursts and enabling the one or more components during time intervals between radiation bursts.

6. (Original) The method of claim 1, wherein adjusting telemetry comprises increasing power of telemetry signals during the electromagnetic radiation bursts.

7. (Currently amended) The method of claim 1, wherein adjusting telemetry comprises selecting a packet size of message packets to be transmitted by telemetry for effective communication transmission of message packets by the telemetry of the medical device between burst intervals.

8. (Original) The method of claim 1, further comprising:
identifying information associated with one or more MRI magnetic gradients; and adjusting telemetry of a medical device during application of the MRI magnetic gradients.

9. (Currently amended) A method of coordinating a medical device with magnetic resonance imaging (MRI), the method comprising:

identifying an occurrence of one or more magnetic resonance imaging (MRI) electromagnetic radiation bursts; and

adjusting telemetry of a medical device to allow for effective communication from the medical device by telemetry during a period when the electromagnetic radiation bursts are occurring.

10. (Original) The method of claim 9, further comprising automatically adjusting telemetry of a medical device upon identifying the occurrence.

11. (Original) The method of claim 9, further comprising measuring one or more characteristics of the electromagnetic radiation bursts and adjusting telemetry based on the measured characteristics.

12. (Original) The method of claim 11, wherein the characteristics include a duration of the electromagnetic radiations bursts and a time interval between bursts.

13. (Currently amended) A medical device comprising:

a telemetry unit to perform telemetry with another device; and
a control unit to adjust the telemetry during a period when magnetic resonance imaging (MRI) electromagnetic radiation bursts are being applied to a patient so that the medical device can communicate by telemetry with another device during the period.

14. (Original) The medical device of claim 13, wherein the telemetry unit receives information from an MRI device indicative of the electromagnetic radiation bursts, and wherein the control unit adjusts telemetry based on the information.

15. (Original) The medical device of claim 13, wherein the information comprises timing information indicative of a timing of one or more electromagnetic radiation bursts.

16. (Original) The medical device of claim 15, wherein the timing information includes a start time of at least one burst interval, a duration of the burst interval(s), and a time interval between successive burst intervals.

17. (Original) The medical device of claim 13, wherein the control unit adjusts telemetry by disabling one or more components of the telemetry unit during the electromagnetic radiation bursts.

18. (Original) The medical device of claim 13, wherein the control unit adjusts telemetry by increasing power of telemetry signals during the electromagnetic radiation bursts.

19. (Currently amended) The medical device of claim 13, wherein the control unit adjusts telemetry by selecting a packet size of message packets to be

transmitted by telemetry for effective communication by telemetry between the medical device and another device during a time interval between burst intervals.

20. (Original) The device of claim 13, wherein the medical device is selected from the group consisting of: a programmer, an implantable medical device, a cardiac pacemaker, a defibrillator, a cardioverter, a pacemaker-defibrillator-cardioverter, a sensing device, a monitor, a muscular stimulator, a nerve stimulator, a deep brain stimulator, a gastric stimulator, a colon stimulator, an agent dispenser, and a recorder.

21. (Currently amended) A medical device comprising:
a telemetry unit perform telemetry with another device; and
a control unit to identify an occurrence of one or more magnetic resonance imaging (MRI) electromagnetic radiation bursts and adjust the telemetry during a period when the electromagnetic radiation bursts are occurring so that the medical device can communicate by telemetry with another device during the period when bursts are occurring.

22. (Original) The medical device of claim 21, wherein the control unit automatically adjusts telemetry upon identifying the occurrence.

23. (Original) The medical device of claim 21, wherein the telemetry unit receives radiation associated with the electromagnetic radiation bursts and the control unit measures one or more characteristics of the received radiation and adjusts telemetry based on the measured characteristics.

24. (Original) The medical device of claim 21, wherein the characteristics define a duration of the electromagnetic radiations bursts and a time interval between bursts.

25. (Currently amended) A system comprising:

a first medical device to transmit information indicative of one or more magnetic radiation imaging (MRI) electromagnetic radiation bursts; and

a second medical device to receive the information and adjust telemetry based on the information so that the second medical device can communicate by telemetry during a period when MRI electromagnetic radiation bursts are occurring.

26. (Original) The system of claim 25, wherein the first medical device is an MRI device and the second medical device is a programmer.

27. (Original) The system of claim 25, wherein the first medical device is an MRI device and the second medical device is an implantable medical device.

28. (Original) The system of claim 25, wherein the first medical device is a programmer and the second medical device is an implantable medical device.

29. (Original) The system of claim 25, further comprising a third medical device to receive the information and adjust telemetry based on the information, wherein the first medical device is an MRI device, the second medical device is an implantable medical device, and the third medical device is a programmer.

30. (Currently amended) A system comprising

a first medical device to apply magnetic radiation imaging (MRI) electromagnetic radiation bursts; and

a second medical device to receive radiation from the electromagnetic radiation bursts and adjust telemetry during a period when the electromagnetic radiation bursts are being applied so that the second medical device can communicate by telemetry during the period when the bursts are being applied.

31. (Original) The system of claim 30, wherein the first medical device is an MRI device and the second medical device is an implantable medical device.

32. (Original) The system of claim 30, wherein the first medical device is an MRI device and the second medical device is a programmer.

33. (Currently amended) The system of claim 30, further comprising a third medical device to receive radiation from the electromagnetic radiation bursts and adjust telemetry during the period when the electromagnetic radiation bursts are being applied, wherein the first medical device is an MRI device, the second medical device is an implantable medical device, and the third medical device is a programmer.

34. (Currently amended) An apparatus comprising:

means for sending communications to another device by telemetry; and
means for adjusting the telemetry during a period when magnetic resonance imaging (MRI) electromagnetic radiation bursts are being applied so that the means for sending communications can send communications to another device by telemetry during the period when MRI electromagnetic radiation bursts are being applied.

35. (Currently amended) An apparatus comprising:

means for sending communications to another device;
means for identifying one or more magnetic resonance imaging (MRI) electromagnetic radiation bursts; and
means for adjusting telemetry to allow effective communication by telemetry during a period when the electromagnetic radiation bursts are being applied to a patient.

36. (Currently amended) A method of coordinating a medical device with magnetic resonance imaging (MRI) comprising:

performing MRI imaging techniques by applying a substantially constant strong magnetic field, applying one or more MRI electromagnetic radiation bursts, and imaging a patient following the MRI electromagnetic radiation bursts;

identifying information associated with one or more MRI electromagnetic radiation bursts; and

adjusting telemetry of a medical device, ~~during the electromagnetic radiation bursts~~ based on the information, during a period when the electromagnetic radiation bursts are being applied to the patient, so that the medical device can communicate by telemetry during the period.

37. (Original) The method of claim 36, wherein identifying information comprises receiving the information from an MRI device that performs the MRI imaging techniques.